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<110> LKew, Chong-Chin

<120> Method for the Detection of Hyperlipidemia Related Gene Transcripts in Blood

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<141> 2004-03-30

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<151> 2003-06-20

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<151> 2002-10-09

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<151> 2002-02-28

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<151> 1999-01-06

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<170> PatentIn version 3.2

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cccacatttc cattttaat atatactgtg ctttacaaat attataatat gttttaaaat 180
atgttcacag aagcacctgg tctgtaatg gcatgccagc attaaaaaaaaa ataagcattc 240
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caaaatttgt gatttctaa atacttctg gctgcaggga agaaaccacg tcccaggcga 360
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aaagggggaa ggccccaaa accggggggg gggnaaaaag gtgggtttcc cccttttcc 180
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caaattgggg ggnaaaccaa atttaagggg ggaagggggg gncccccccg ggaaaggccc      180
aaggggggaa aatttttccg ggggtgggtt ggggaacca atttaagggg ggggcccccg      240
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ctgtacttga actctaaaac tggggagaa actcagtgt taccccaaca gattcatttc	180	
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 tttaggcggc accccaacaa caccaggccc tacttttcc aaggncgggg aagccatgg 180
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aaggggggtg gggaaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag		180
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aagaaggaac ccaccctngg ggccaaacaa	aaacttaaaa acccccccatt ttcntncccc	180
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ggtgctcctg cgtttggact gtgcaggcct ctcctatgct gatgcgtctc cccactcctg 180

agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc 240

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actagatttt actgttagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt      180
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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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<400> 52		
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ctcagactgc aaantgtnat nctgnnnan nntgnngact gtccngncng atttnnnngcn	120	
tgnataacta ttgcctctta tatacacnac caannntgcg aagggcnann nnaccttnc	180	
cantnnnctg gggncacn nnngngaact gagagtggat cttgtgtacc tgacnnacca	240	

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gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtcaaaga	300
ccngnctatc tcactganga tgattgncag ngccnntggg tggcacnang ggnactgatg	360
ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat	420
aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa	480
ntctntcnct ataggcatga ttttnncag tgcgtcagcc ttganaanga ancnnacttt	540
tgntagatga nnngntgctc ncccttnggg ctnacaaatt ccancaccnt tggtggcngc	600
agccnttaag ancactntt ttgggttgcg ctnttggatg aattacnaat agnntgtttt	660
gttncaaggc cttctgcna aatatgaana aaagngcnct tagcttttg nggaaactgn	720
actggaaatt ttg	733

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (74)..(74)

<223> n is a, c, g, or t

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<221> misc_feature

<222> (80)..(80)

<223> n is a, c, g, or t

<400> 53

gatcagacaa gancntggc cacagcggga cgagagntct cnannctgcn ggggagnnnnc 60

caagtacgcn agcnctgaan ctaaagcaag caagaaaaag 100

<210> 54

<211> 515

<212> DNA

<213> Human

<400> 54

atatggcaag gataaccctt atacttctgc ataatgaatt aactaaaata acttgcaagg 60

agagccaagc taaacccccc ataccgacga gtaccagaac aggttaagcac cccgtctatg 120

tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgtccaa 180

gaagagtctt agttcattta tttggccag aaccctctaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

gcctaatacg agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

ataagtaacc tgaaaacatt ctcccttgca taagccctgc gttggattat atccctgcact 480

gacaattaac tgccccaata tctacaatcc aaccc 515

<210> 55

<211> 176

<212> DNA

<213> Human

<220>

<221> misc_feature

<222> (5)..(5)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (32)..(32)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (40)..(40)

<223> n is a, c, g, or t

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<222> (60)..(60)
<223> n is a, c, g, or t

<220>
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<222> (62)..(62)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (76)..(76)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (107)..(107)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (155)..(155)
<223> n is a, c, g, or t

<400> 55
tgttnaggat caaattataa tattgaaata anaacagctn acatttatat agcatgttn 60
cntatctcaa ctaatnataa atggaaaat gggcaactgg gcaggcngaa cccagaggga 120
agcctgccct cattagacca agacagcaag gtttncctg gtcactagat gaaatt 176

<210> 56
<211> 317
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<400> 56
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atgtggatg tgaccccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120
ggatttgggg ttttagaggtt caattgcctt tttatggta gagaaaggta ctggggctgg 180
agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
gcttaaaggc ctgtgtcagt tctattgtaa acaccaactt aaagtgggtgg atgctggcag 300
acattgttat tgccatt 317

<210> 57
<211> 209
<212> DNA
<213> Human

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<400> 57
ctcatacacc tgtggctact gttttctaca gagtgccaaa actattcgag agaataggct 60
ctggactgga cactgtatac ccacatgcaa gatgaagttg gccccttaca tcctatacgc 120
aggagaattg cgtcatttaa agcctgtga cgctttctc ccgcagacga atggaaagat 180
taattgggag tgggggctga aacaattcg 209

<210> 58
<211> 262
<212> DNA
<213> Human

<400> 58
aatttgctg ttacatggtg gctcaactga gtcccatact ttgaaggccg ggagttaatc 60
acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120
caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg 180
agttgcttgg cccaaggaag gagggttgtt tggctgatca cactggtccg cctgggtgac 240
agagcgagac tccatctcta at 262

<210> 59
<211> 430
<212> DNA
<213> Human

<400> 59
gtcagtttat ttctgactag ggatatttc tttccattta gaaaagaaga aaaaaaaaaaa 60
aaacctttat tgtcttacag ggggaaacta gcgcggggct gaataaaacc tttggccctt 120
cccgaaaaag gggtatccgg tttataaacc ccaagggtat tttcttagca aaatacttaa 180
aaccggccgg ggttttataa caaactggaa acccactttt gaaaaattttt ggcctttga 240
tctggatgg gaatatgagt ttttatacat ttcattttct ttttggcaa aggccgggtt 300
aagtattccc ccccgaaaaa ctttacaaa aagggcggtt taaaaagctt ttggggcccc 360
ctagggatt gtttaacac ctaaaaaccc ctgcttcct taaagggcg ttcttaatt 420
tggggcgcc 430

<210> 60
<211> 350
<212> DNA
<213> Human

<400> 60
aaacctctct aactatatac cacaataacc tgcgcatatag atttacgctc cgatctttc 60
atcctactag cttggaggat ttgaaccat tatgaatacg caataactccc ggtcctcatg 120
tatcatgtgt aagcccatct cttggggagg ctaacatact accatctcca aggagaggca 180

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tgattccgaa	tcacccacag	acagctcgat	caccatacgt	atcacccaaac	atataatacct	240
tctaagactt	gctagaaaaca	accaccacat	ttgatgctta	atcaccactc	tgacgcgcat	300
taaagtgagg	ggactctcct	aatttctgta	agttgatttt	tgcattctga		350

<210> 61
<211> 515
<212> DNA
<213> Human

<400> 61	cacataaatt	ctccataagt	taattagtga	ttttaacatg	atctcaatat	aaacatagca	60
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	aataatcagg	caaattccta	agaataaggg	caattaagga	tgactagccc	tacaagattt	180
	taaaaaggat	tcattagttt	aaaaaatgtg	atgtagatac	atgaataaaaa	taaaatcttg	240
	aagtagatcc	aaatatacat	ggtcagattt	aatacaataa	agatggcattc	gtagcagtgg	300
	agaaaagaag	aattatttca	taaaccttgt	tggaatggct	aggcaatcat	ctggaaaaaa	360
	atgaagttga	ataataaaaaa	tatattctac	actagcacaa	attataaata	aagcagtgtat	420
	ttaaatgaga	aaaattaaat	cataatgatt	tcaaagataa	cataggataa	tttctttata	480
	gtcttctaaa	atataatgact	ttatgaattt	tgact			515

<210> 62
<211> 611
<212> DNA
<213> Human

<400> 62	caagtacttt	accaactaag	ccaatcttgt	ccccagccag	gcatttctat	acaaagggcc	60
	aagactttgg	ttttataaaat	aaggaggat	atataaatta	tatatatttc	tgagctgagt	120
	aataatccac	cagatacaag	tttgcataa	cttctgtgaa	atatttttt	tccttttgt	180
	tggcatttt	tatggtctaa	atatagaatg	accaatgcct	ctagaacaaa	cttgacctgg	240
	tcagtgttat	caagaagcag	actgtttctt	actttcttg	tatttcctta	cttatttaaa	300
	tttgttaaaa	ttgatataatt	gatataaaa	acttctttt	ccagtgttgg	tggcacacgc	360
	ctttaatccc	agcacttagg	aggcagaggc	agggtggatt	tctgaattt	agggcaggct	420
	agtctacaga	gcaagttcca	ggtcagccaa	ggctatata	agaaactctg	gcatgaaaaa	480
	ccaaccaaac	caaaccaaac	caaaccagac	cagaccagac	cagaccagac	caaaccaaac	540
	caaaccagac	taaaccaaac	caaaccagac	cagaccagac	cagaccagac	cagaccagac	600
	cagacccaaac	t					611

<210> 63
<211> 291

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<212> DNA
 <213> Human

<400> 63
 ccgagagatt gccactgct taaactcatg cagctcctac tttcttcaa ttaatgcctt 60
 taatgcgaat atacttcctc ttctttgc atggcttgc ccagcctctg caatactgat
 gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgccc 120
 ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag 180
 aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g 240
 291

<210> 64
 <211> 309
 <212> DNA
 <213> Human

<400> 64
 gccagatgcc gtgttcctc gatgaactct ttacatcatt ggctattcag tggagtgttt 60
 cattatcacc tctcaactctc gcgtgttacc taactctccc tcgcagggga aatcactcca 120
 tataattcaa atgtcttgct aacagtggtt actttgctct atccttagct atacgtctcg 180
 aggcacattg ttcctctatg cccgcctacg cttgcctta gagctcggcg gtatctatat 240
 cttaactgcc ctcttgatcc ttacgtgccg gagaagggtgg aggcagaaat tttgtcaaat 300
 ctgattaga 309

<210> 65
 <211> 278
 <212> DNA
 <213> Human

<400> 65
 tagaatggaa tggagtcgaa tgtgatggaa tggacgcgaa tggaatggaa tggactcgaa 60
 tggataaaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa 120
 agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180
 tggactcaaa aggaatggaa tggaatggac tcaaattggaa tggactcgaa ttgaatgaaa 240
 tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

<210> 66
 <211> 142
 <212> DNA
 <213> Human

<400> 66
 agttctccctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgttt 60
 ttttttaac tgtaggaggt ttataataat gctcatatgg aaaaataaaa catgtaaaaa 120
 atagcttagta aactccccct gt 142

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<210> 67
<211> 286
<212> DNA
<213> Human

<400> 67
atatctgcc a tcctcatcg ccaatcggt tattttgatg acgaatgctt cgagattgg 60
aaagatgatc tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgt 120
attattttcc caacaaattt gcattcatag atagaataag ctgactaaga ctacttagcc 180
ccacattttt ttctacttgc tccaaatagca ctaacaaata ggaagctctt gcttgctccc 240
caaagctcca tttccttcaa agcagaagtg taatattact tcttag 286

<210> 68
<211> 179
<212> DNA
<213> Human

<400> 68
atctactttt tattctttt ataaatgttt atgaaatata aaatactgaa aattagaaaag 60
tagaagtcat tattttatta taaaacatgt ggatttagata ttttcattt tgtgattaaa 120
ctttctaaac aaagattata tgaattatct taaagattt aaaaagtaatt aagttaaat 179

<210> 69
<211> 390
<212> DNA
<213> Human

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<222> (356)..(356)
<223> n is a, c, g, or t

<400> 69
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cttcagtctt agaacgtaaa tccatggaag aattttaaatc aggggtgtgc cttgaccaca 120
ttttgaattt taaactgtct ctgggtgggt gtgggtgcca ccaagagcat gtgttcatgt 180
agggagactg gtttttaca gttgtctatg agagagatga cagttgcctg gattatggtg 240
gtgacattgg agataaggcag gtagacagat tctcagtgtt ttaggagaga aaaaatcaata 300
ggaaattttaa aataaataat taactgtggc cataggagga aggagtctt gggttngtt 360
ctcaatttct gcatgagaaa aaagggtggac 390

<210> 70
<211> 481
<212> DNA
<213> Human

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<220>
<221> misc_feature
<222> (26)..(26)
<223> n is a, c, g, or t

<400> 70
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gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120
tgaaatgata gatgagataa aatgatgata tgaaatgt agatgaatga tgagatgt 180
agatgaatga tgaaatgaaa tgatgagatg agatgtgaa atgaaatggt gagatgaaat 240
gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaatgt gatgtgaaat 300
gatgagatga tgaaattgt gaaatgtgatgt gatgtgatgt gatgaaatgt tgagatgaga 360
tgagatgaca tgaaataatg aatgaaatt gaaatgagat aagatacgag ctgagatgca 420
atgagatgaa atgatgagat gaaatgaaat agtgaatgt aattgaaata aatcgaaat 480
g 481

<210> 71
<211> 125
<212> DNA
<213> Human

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<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (19)..(19)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (29)..(29)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (38)..(38)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (42)..(42)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (45)..(45)
<223> n is a, c, g, or t

<220>

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 <223> n is a, c, g, or t

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 <222> (61)..(61)
 <223> n is a, c, g, or t

<220>
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 <222> (77)..(77)
 <223> n is a, c, g, or t

<220>
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 <222> (79)..(79)
 <223> n is a, c, g, or t

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 <222> (88)..(88)
 <223> n is a, c, g, or t

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 <222> (90)..(90)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (100)..(100)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (110)..(110)
 <223> n is a, c, g, or t

<400> 71
 cggtncaat tgggggccnc atacgcgcng acgagtantg gncangctnc ttgactacac 60
 ngacgcgccc tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc 120
 cacag 125

<210> 72
 <211> 473
 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 <222> (151)..(151)
 <223> n is a, c, g, or t

<400> 72
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 atgagatgaa atgttggaaa gaaaggagga aatgatgagg tgagatgaaa tggatgatg 120

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aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga	180
cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa	240
tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa	300
ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga	360
catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga	420
tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga	473

<210> 73
 <211> 500
 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (233)..(233)
 <223> n is a, c, g, or t

<400> 73	
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aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaatgaa atgaaataat	120
gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa	180
tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga	240
gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga	300
tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga	360
aatgatgaaa tgatgagatg aatgatgaa atgaaataat gaaatgagat gaaataaaat	420
aatgaaatga tgaaataatg aatgaaaat gaaatggaaa tgatgagatg agaagaaatg	480
atgagatgaa atgatgaaaat	500

<210> 74
 <211> 299
 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 <222> (31)..(32)

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<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (57)..(57)

<223> n is a, c, g, or t

<400> 74

ggaaatcctg aagtggaaat gatgagctga nntgcaatga gttgaaatga gatgaancga	60
tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga	120
cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa	180
tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg	240
aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg	299

<210> 75

<211> 155

<212> DNA

<213> Human

<400> 75

agtgaaatga aattgaaata aaatcgaaat gagatgagat gaaatgatga gatgatgaaa	60
taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga	120
tgagatgaca tgaaataatg aaacgaaatt gaaat	155

<210> 76

<211> 367

<212> DNA

<213> Human

<220>

<221> misc_feature

<222> (11)..(11)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (37)..(38)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (43)..(43)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (56)..(56)

<223> n is a, c, g, or t

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 <221> misc_feature
 <222> (67)..(67)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (71)..(71)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (75)..(75)
 <223> n is a, c, g, or t

<400> 76
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 cgccatgaaa tttctgctcg attagctac gttgttgaa tagaggccaa acaaggctgt 180
 tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact 240
 ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300
 aaatatgagg ggtggcaagg tttgcctgt tacattctca aatggaagca aattagatat 360
 gtcattg 367

<210> 77
 <211> 257
 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n is a, c, g, or t

<400> 77
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